

Claims

1. A processed-object transfer system for transferring an object to be processed, while taking the object out of a processed-object carrier which is provided on the top face of a load port unit, said processed-object transfer system comprising:

a system body;

a linear motor which is provided so as to extend in lateral directions of said system body; and

a processed-object transfer robot which is mounted on a primary or secondary side of said linear motor and which is capable of linearly reciprocating in longitudinal directions of said linear motor,

wherein said load port unit is mounted on the outside of a front wall of said system body, and said linear motor is mounted in vertical directions inside of said front wall of said system body.

2. A processed-object transfer system as set forth in claim 1, which further comprises an exhaust fan which is provided on the bottom of said system body.

3. A processed-object transfer system as set forth in claim 2, which further comprises a clean air supply system for supplying clean air to said object which is transferred by said processed-object transfer robot, said clean air supply system being provided in an upper portion of said system body.

4. A processed-object transfer system as set forth in claim 1, which further comprises a braking device including:

a movable body which is mounted on one of the primary and secondary sides of said linear motor, said movable body being absorbed by a magnetic attraction of a coil, which is included in said one of the primary and secondary sides, against a resilient

restoring force of a compression spring acting in the opposite direction to said magnetic attraction; and

a brake plate which is mounted on the other side of the primary and secondary sides of said linear motor so as to face said movable body, said brake plate being contacted pressingly with said movable body by interrupting the feeding of power to said coil.

5.(Deleted) A processed-object transfer system for transferring an object to be processed, while taking the object out of a processed-object carrier which is provided on the top face of a load port unit, said processed-object transfer system comprising:

a system body;

a linear motor which is provided so as to extend in lateral directions of said system body;

a processed-object transfer robot which is mounted on a primary or secondary side of said linear motor and which is capable of linearly reciprocating in longitudinal directions of said linear motor; and

a braking device including:

a movable body which is mounted on one of the primary and secondary sides of said linear motor, said movable body being absorbed by a magnetic attraction of a coil, which is included in said one of the primary and secondary sides, against a resilient restoring force of a compression spring acting in the opposite direction to said magnetic attraction; and

a brake plate which is mounted on the other side of the primary and secondary sides of said linear motor so as to face said movable body, said brake plate being contacted pressingly with said movable body by interrupting the feeding of power to said coil.

6.(Amended) A processed-object transfer system as set forth in claim 4, wherein said system body is provided with an emergency stop switch for emergency-stopping a processed-object transfer

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robot, and the feeding of power to said coil is interrupted by operating said switch.

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7. A semiconductor fabricating system comprising a processed-object transfer system as set forth in claim 1.

8.(Deleted) A semiconductor fabricating system comprising a processed-object transfer system as set forth in claim 5.

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